

FILM BULK ACOUSTIC RESONATOR (FBAR) WITH HIGH THERMAL CONDUCTIVITY

ABSTRACT OF THE DISCLOSURE

The specification discloses embodiments of an apparatus comprising a film bulk acoustic resonator (FBAR) filter comprising a piezoelectric membrane having a portion thereof sandwiched between a first electrode and a second electrode, the piezoelectric membrane being suspended from at least two edges thereof, and a heat transfer layer placed on the piezoelectric membrane surrounding, but not in contact with, the first electrode. Also disclosed are embodiments of a process comprising sandwiching a portion of the piezoelectric membrane between a first electrode and a second electrode, suspending a piezoelectric membrane from at least two edges thereof, and placing a heat transfer layer on the piezoelectric membrane surrounding, but not in contact with, the first electrode. Other embodiments are disclosed and claimed.